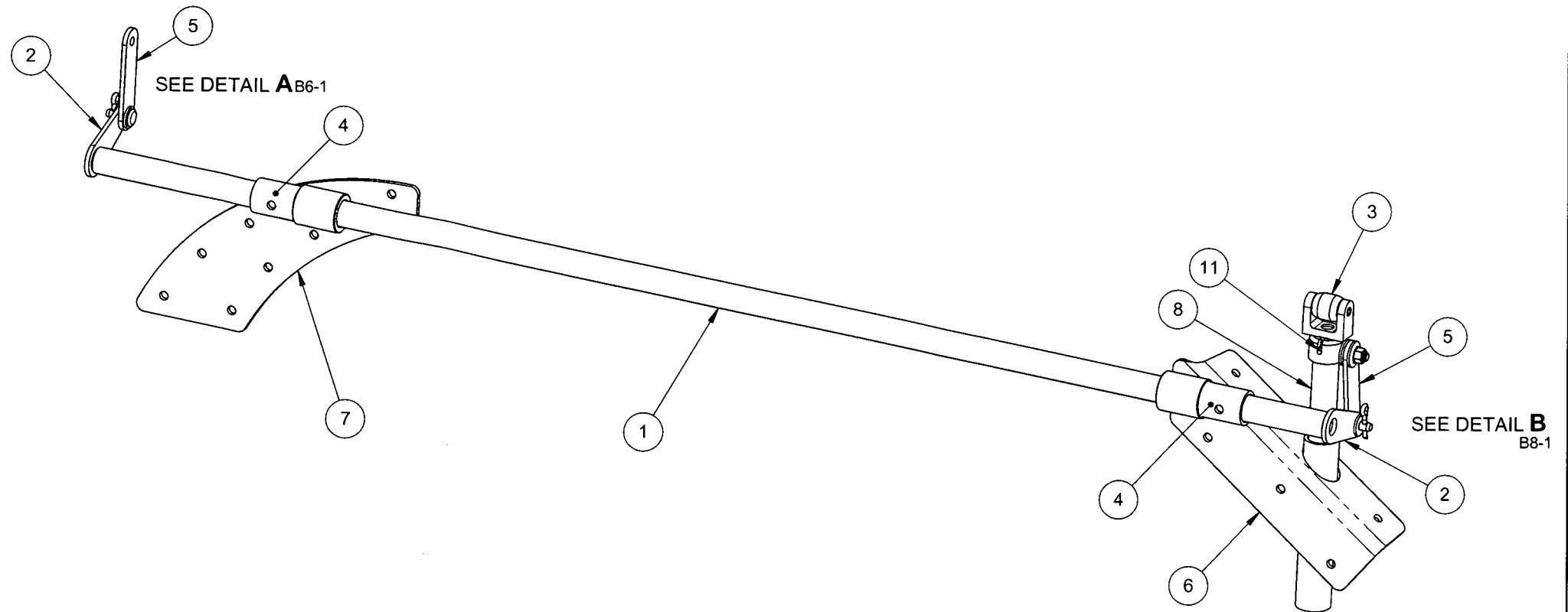
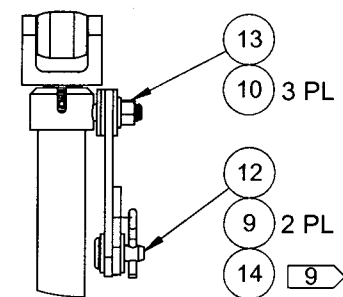


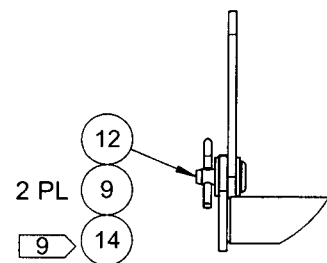
ITEM	QTY -041	P/N	DESCRIPTION
	X	D4576-041	HORIZONTAL LINKAGE ASSY (LH)
1	1	D3589-1	ARM
2	2	D3589-13	LUG
3	1	D4530-041	LATCH ROLLER
4	2	D4576-3	STOP COLLAR
5	2	D4576-11	LINK
6	1	D4576-043	FORWARD PLATE WELDMENT (LH)
7	1	D4576-045	AFT PLATE WELDMENT (LH)
8	1	D4576-047	ROLLER SHAFT WELDMENT
9	4	AN960JD4	WASHER, #4
10	3	AN960JD6	WASHER, #6
11	1	MS16562-193	SPRING PIN
12	2	MS20392-1C7	PIN
13	1	MS21043-06	HEX NUT, SELF LOCKING, #6
14	2	MS24665-1010	COTTER PIN



**D4576-041 HORIZONTAL LINKAGE ASSY (LH)**



**DETAIL B C1-1**



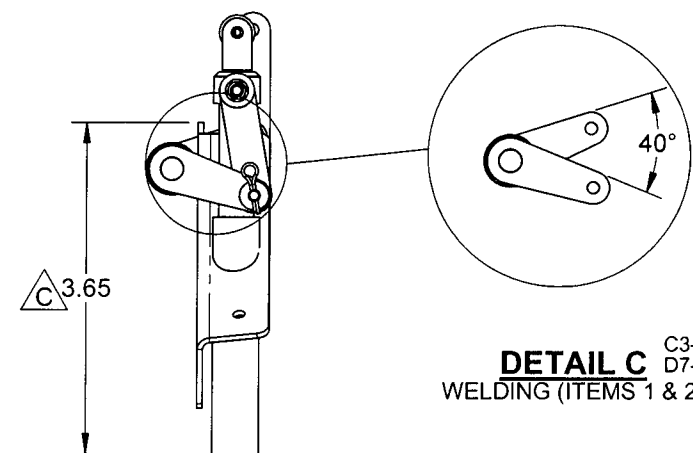
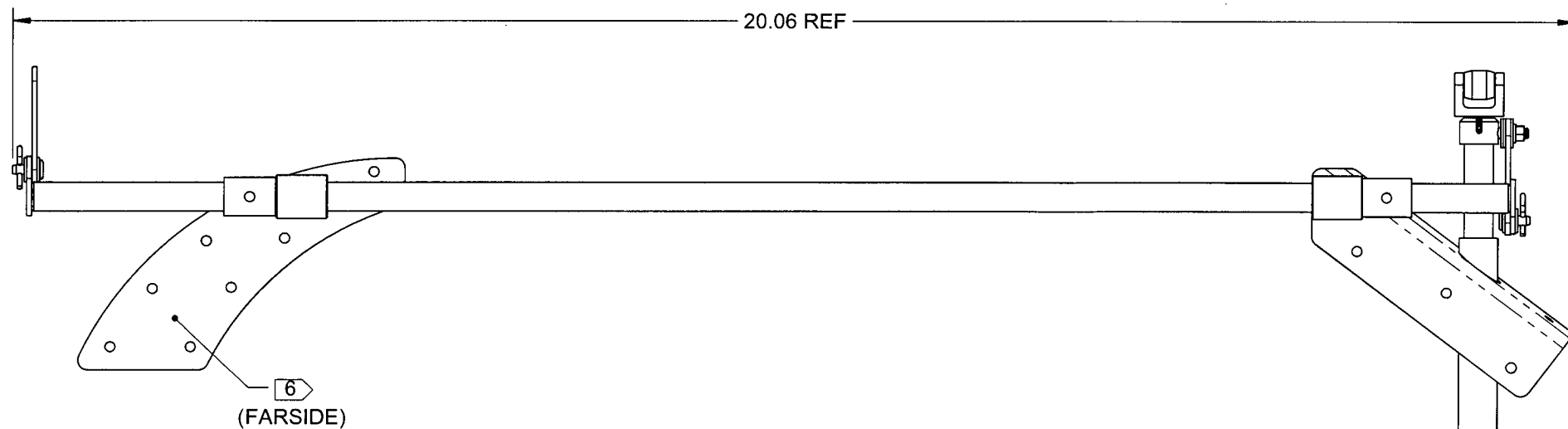
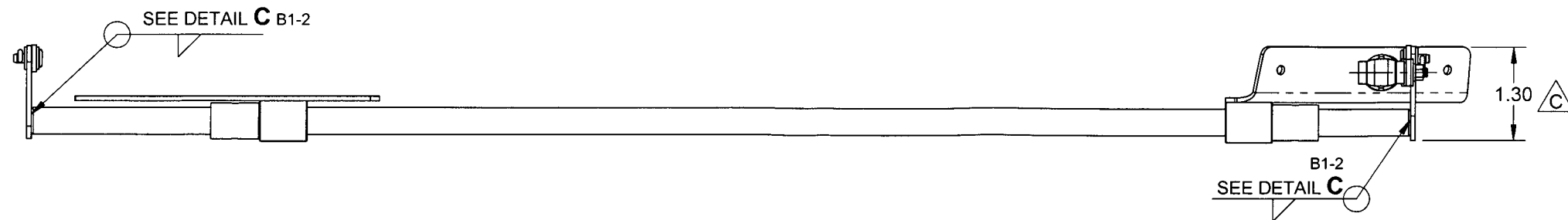
**DETAIL A D5-1**

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.9 lbs
- 8) WELDING: PER DART QSI 004

**RELEASED**  
2012-09-26

REV.	DESCRIPTION	BY	DATE
C	SHT 11, -10 & -9 REDESIGNED, MULTIPLE VIEWS UPDATED ACCORDINGLY. SHT 4 & 5 D3589-3 REPLACED WITH D3589-23.	AJS	12.09.11
B	ADDED (RH) VERSION D4576-042; ADDED D4576-047 WELDMENT; D4576-11 CHANGES	RP	12.04.17
A	NEW ISSUE	RP	12.02.24
DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.	<i>[Signature]</i>	<b>D4576</b>	SHEET 1 OF 12
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>HORIZONTAL LINKAGE ASSY</b>	NTS
DATE	12.09.11	<small>COPYRIGHT © 2012 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



# **D4576-041 HORIZONTAL LINKAGE ASSY (LH)**

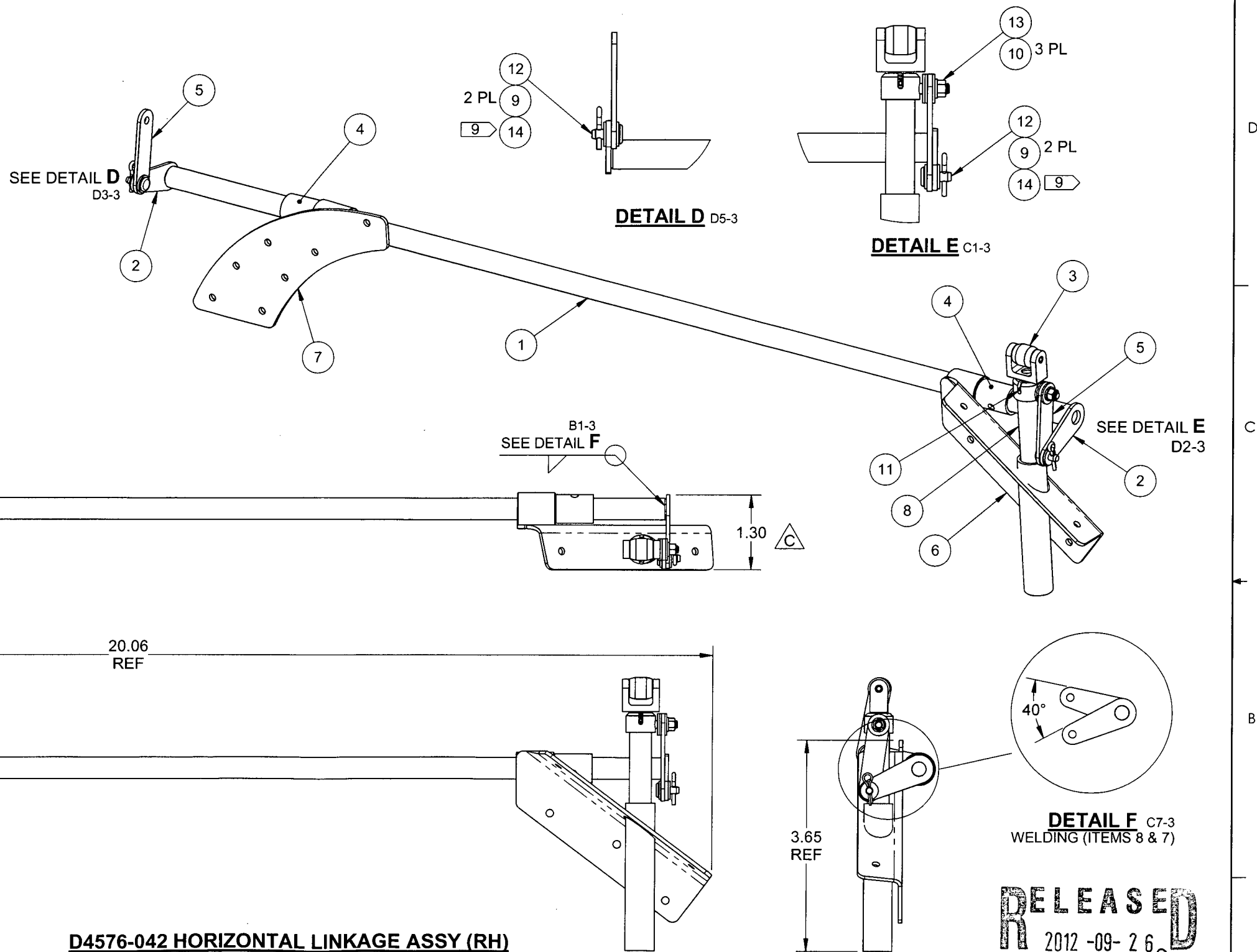
## **NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER DART QSI 044 6.1
- 7) WEIGHT: 0.9 lbs
- 8) WELDING: PER DART QSI 004
- 9) INSTALL COTTER PIN IN ACCORDANCE WITH MS33540

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.	<i>[Signature]</i>	<b>D4576</b>	SHEET 2 OF 12
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>HORIZONTAL LINKAGE ASSY</b>	NTS
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**RELEASED**  
2012-09-26  
*[Signature]*

ITEM	QTY -042	P/N	DESCRIPTION
	X	D4576-042	HORIZONTAL LINKAGE ASSY (RH)
1	1	D3589-1	ARM
2	2	D3589-13	LUG
3	1	D4530-041	LATCH ROLLER
4	2	D4576-3	STOP COLLAR
5	2	D4576-11	LINK
6	1	D4576-044	FORWARD PLATE WELDMENT (RH)
7	1	D4576-046	AFT PLATE WELDMENT (RH)
8	1	D4576-047	ROLLER SHAFT WELDMENT
9	4	AN960JD4	WASHER, #4
10	3	AN960JD6	WASHER, #6
11	1	MS16562-193	SPRING PIN
12	2	MS20392-1C7	PIN
13	1	MS21043-06	HEX NUT, SELF LOCKING, #6
14	2	MS24665-1010	COTTER PIN

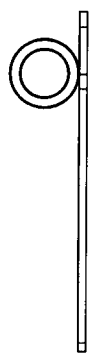
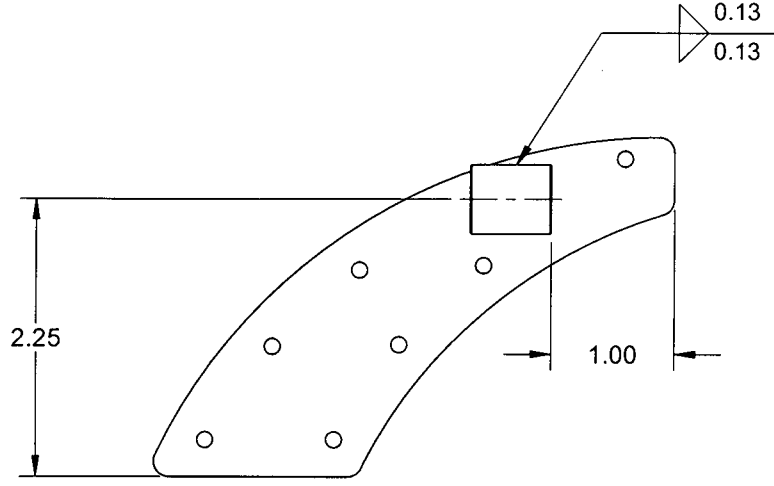
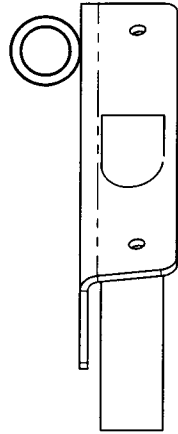
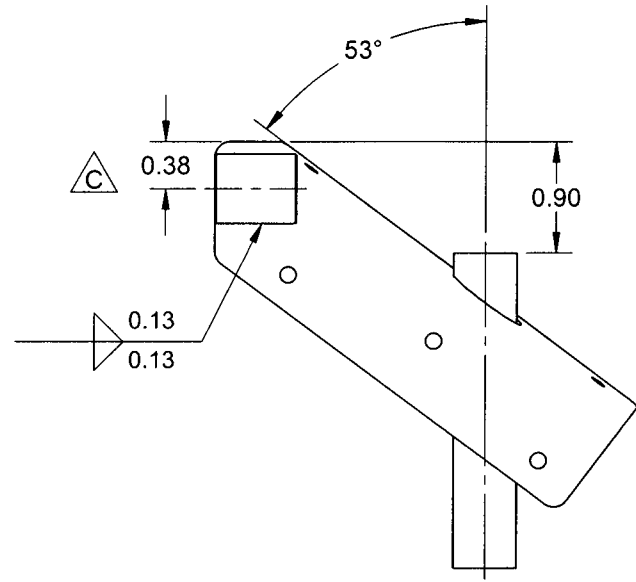
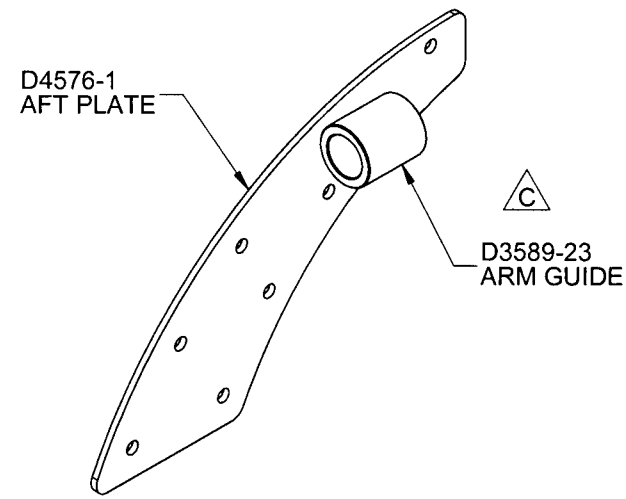
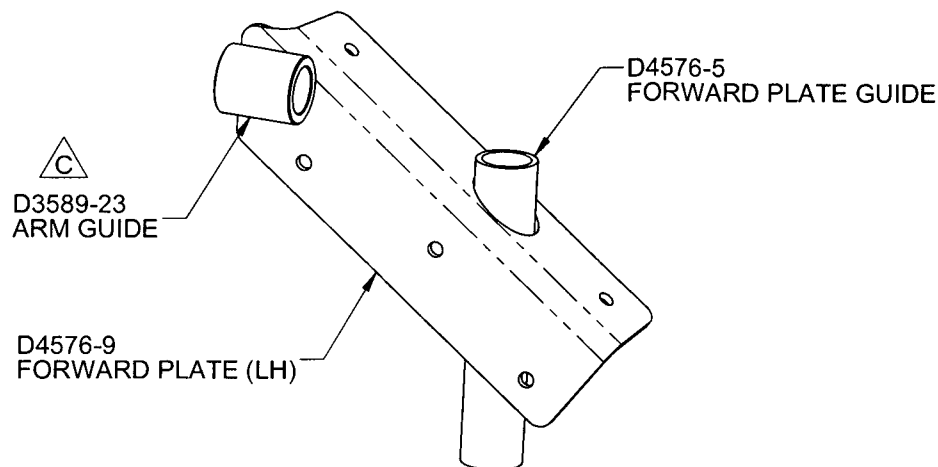
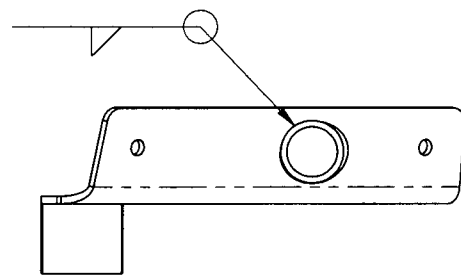


**D4576-042 HORIZONTAL LINKAGE ASSY (RH)**

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER DART QSI 044 6.1
- 7) WEIGHT: 0.9 lbs
- 8) WELDING: PER DART QSI 004
- 9) INSTALL COTTER PIN IN ACCORDANCE WITH MS33540

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.	<i>[Signature]</i>	<b>D4576</b>	SHEET 3 OF 12
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>HORIZONTAL LINKAGE ASSY</b>	NTS
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**D4576-043 FORWARD PLATE WELDMENT (LH)**

ITEM	QTY -043	P/N	DESCRIPTION
1	1	D3589-23	ARM GUIDE
2	1	D4576-5	FORWARD PLATE GUIDE
3	1	D4576-9	FORWARD PLATE (LH)

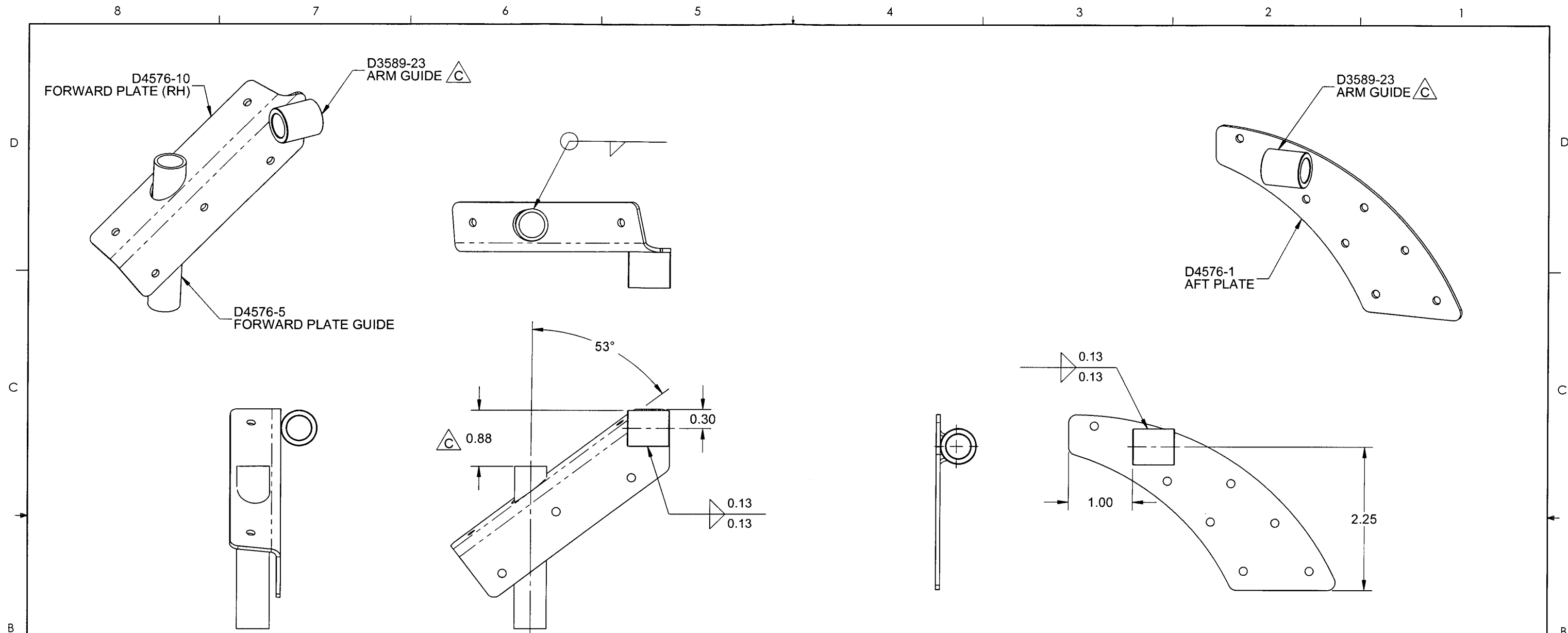
**D4576-045 AFT PLATE WELDMENT (LH)**

ITEM	QTY -045	P/N	DESCRIPTION
1	1	D3589-23	ARM GUIDE
2	1	D4576-1	AFT PLATE

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT:
  - D4576-043 = 0.19 lbs
  - D4576-045 = 0.16 lbs
- 8) WELDING: PER DART QSI 004

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.		<b>D4576</b>	SHEET 4 OF 12
APPROVED		TITLE	SCALE
DE APPR.		<b>HORIZONTAL LINKAGE ASSY</b>	NTS
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**D4576-044 FORWARD PLATE WELDMENT (RH)**

ITEM	QTY -044	P/N	DESCRIPTION
1	1	D3589-23	ARM GUIDE
2	1	D4576-5	FORWARD PLATE GUIDE
3	1	D4576-10	FORWARD PLATE (RH)

△C

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT:
  - D4576-044 = 0.19 lbs
  - D4576-046 = 0.16 lbs
- 8) WELDING: PER DART QSI 004

**D4576-046 AFT PLATE WELDMENT (RH)**

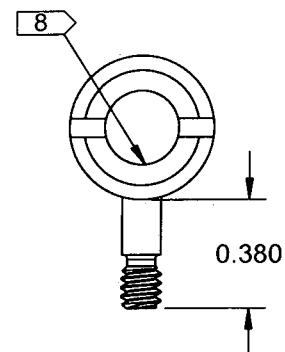
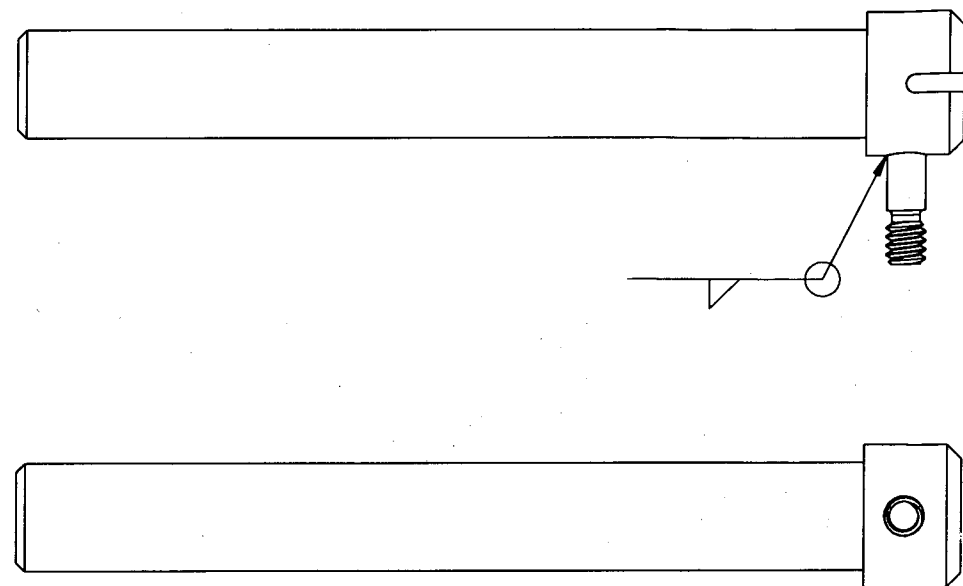
ITEM	QTY -046	P/N	DESCRIPTION
1	1	D3589-23	ARM GUIDE
2	1	D4576-1	AFT PLATE

△C

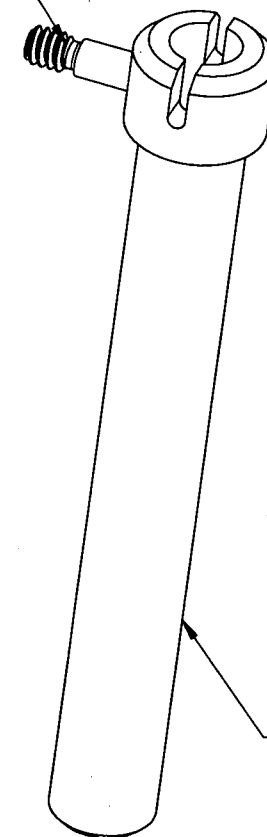
**RELEASED**  
2012-09-26

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.	<i>[Signature]</i>	<b>D4576</b>	SHEET 5 OF 12
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>HORIZONTAL LINKAGE ASSY</b>	NTS
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D  
C  
B  
A



D4576-13  
THREADED STUD



D4576-7  
LATCH SHAFT

**D4576-047 ROLLER SHAFT WELDMENT**

ITEM	QTY -047	P/N	DESCRIPTION
1	1	D4576-7	LATCH SHAFT
2	1	D4576-13	THREADED STUD

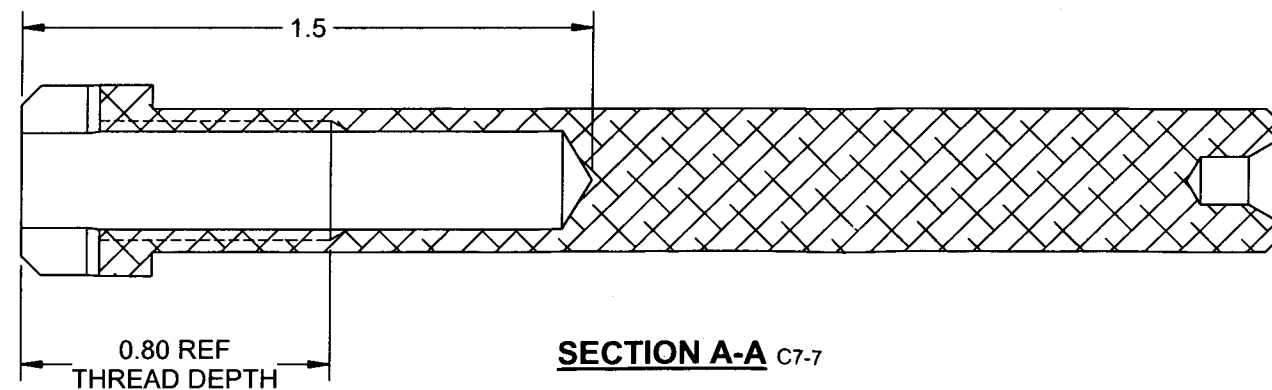
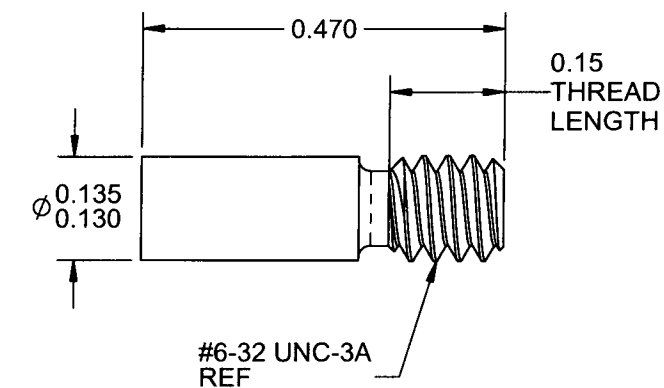
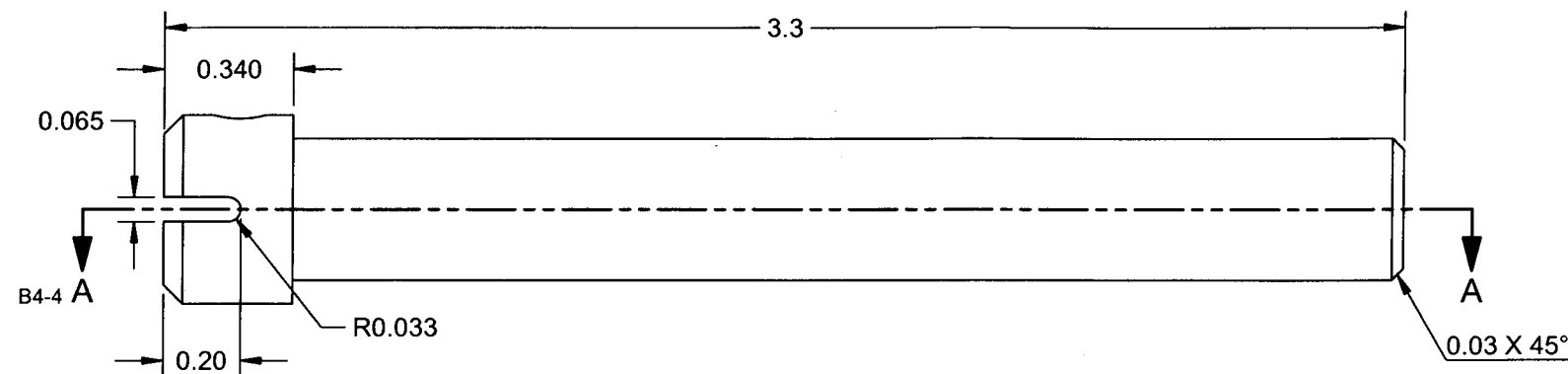
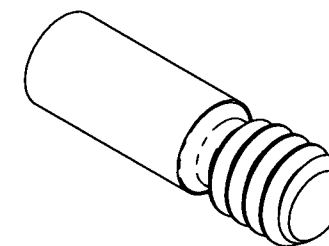
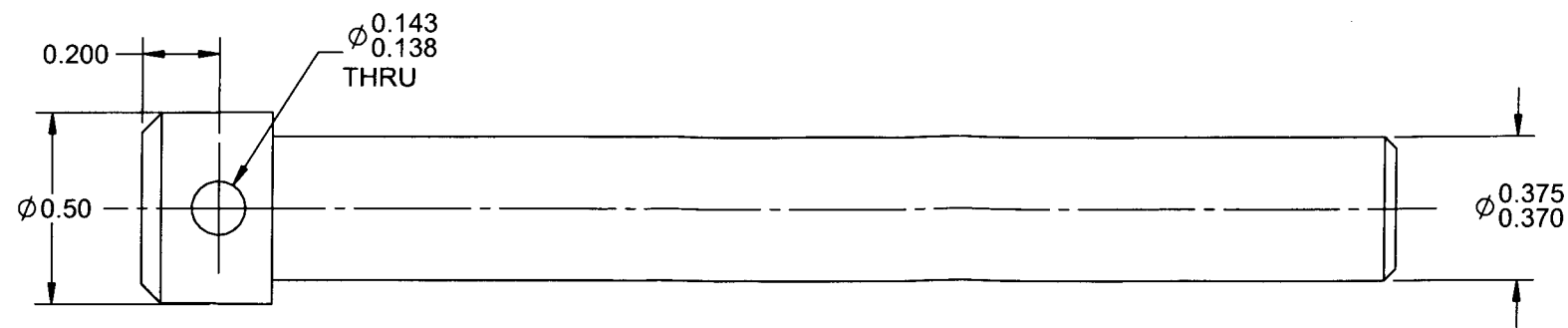
RELEASED  
2012-09-26  
JMD

**NOTES:**

- 1) MATERIAL: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER DART QSI 044 6.6 OR 6.7
- 7) WEIGHT: - D4576-047 = 0.07 lbs  
- D4576-13 = 0.01 lbs
- 8) THREADED STUD NOT TO INTERFERE WITH 5/16-18 THREAD IN LATCH SHAFT
- 9) WELDING: PER DART QSI 004

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	A.P.	DRAWING NO. <b>D4576</b>	REV. C
MFG. APPR.	JMD	SHEET 6 OF 12	
APPROVED	JMD	TITLE <b>HORIZONTAL LINKAGE ASSY</b>	SCALE NTS
DE APPR.	JMD	COPYRIGHT © 2012 BY DART AEROSPACE LTD	
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8 7 6 5 4 3 2 1



ACCEPTABLE TO  
CENTER DRILL  
MAX #3

8 D4576-13 THREADED STUD

RELEASED  
2012-09-26

# NOTES:

- 1) MATERIAL: AISI 304/316 SS ROUND BAR PER ASTM A276  
REF DART SPEC M304R
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER DART QSI 044 6.6 OR 6.7
- 7) WEIGHT: 0.07 lbs
- 8) MAY BE FABRICATED FROM MCMASTER P/N 97345A458

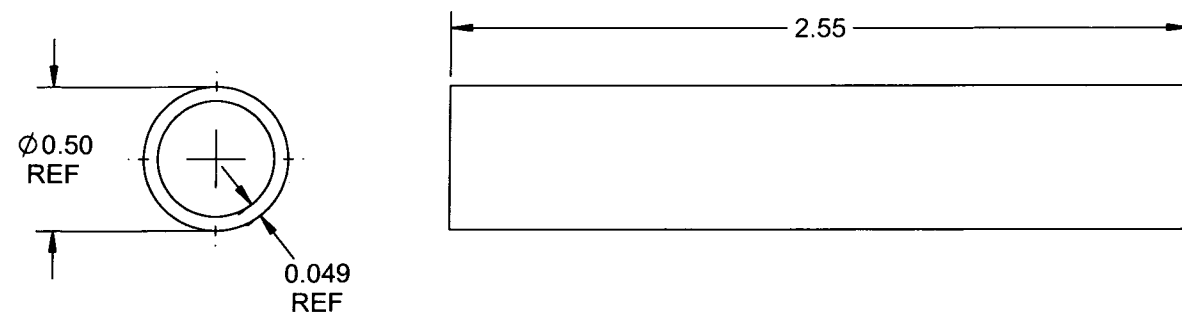
## D4576-7 LATCH SHAFT

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	A.P.	DRAWING NO.	REV. C
MFG. APPR.		D4576	SHEET 7 OF 12
APPROVED		TITLE	SCALE
DE APPR.		HORIZONTAL LINKAGE ASSY	NTS
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8 7 6 5 4 3 2 1

D

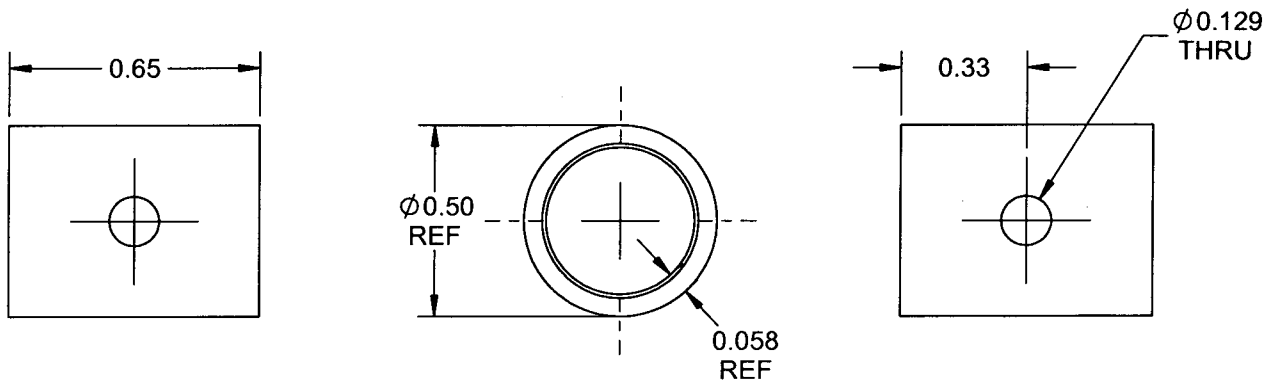
D



**D4576-5 FORWARD PLATE GUIDE**

C

C



**D4576-3 STOP COLLAR**

B

B

RELEASE  
2012-09-26  
MD

- NOTES:**  
1) MATERIAL: AISI 304/316 STAINLESS STEEL SEAMLESS ROUND TUBING  
PER ASTM A213 OR ASME SA213 OR ASTM A269  
D4576-3: 0.500 O.D. X 0.058 WALL  
REF. DART SPEC M304TR0.500W.058  
D4576-5: 0.500 O.D. X 0.049 WALL  
REF. DART SPEC M304TR0.500W.049  
2) FINISH: N/A  
3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
4) UNITS: INCHES UNLESS OTHERWISE NOTED  
5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
6) IDENTIFICATION: PER DART QSI 044 6.6 OR 6.7  
7) WEIGHT: - D4576-3 = 0.01 lbs ea.  
- D4576-5 = 0.06 lbs

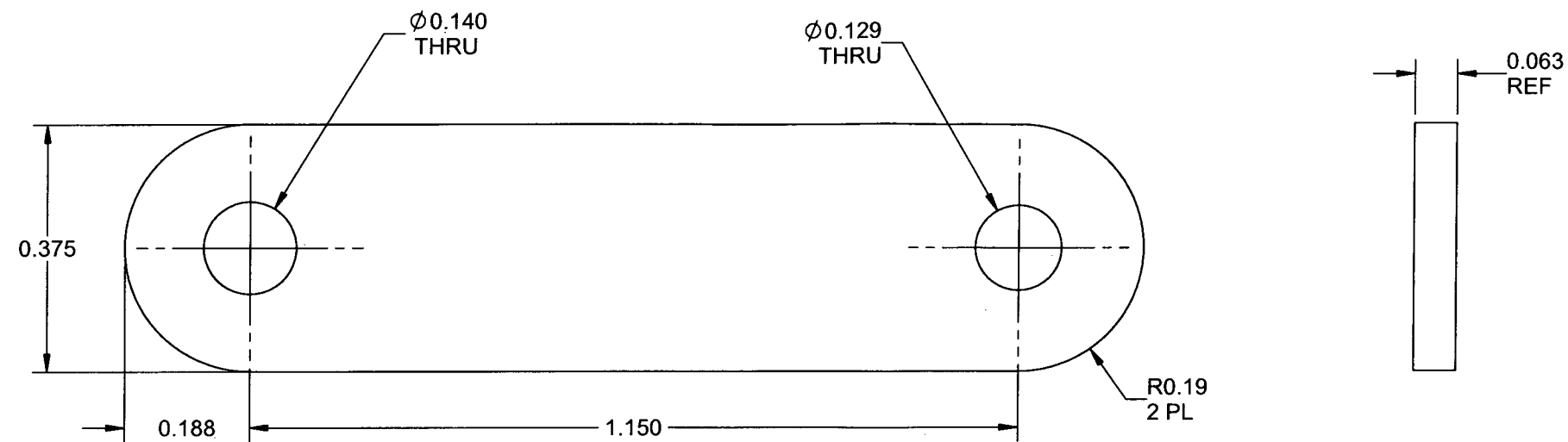
DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	A.P.	DRAWING NO.	REV. C
MFG. APPR.		D4576	SHEET 8 OF 12
APPROVED		TITLE	SCALE
DE APPR.		HORIZONTAL LINKAGE ASSY	NTS
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A

A

8 7 6 5 4 3 2 1





**D4576-11 LINK**

**RELEASED**  
2012-09-06  
JMP

**NOTES:**

1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, ANNEALED, 2B FINISH.  
16 GAUGE (0.063 THICK)  
PER AMS 5513 OR AMS 5524, OR MIL-S-5059  
REF. DART SPEC M304S16GA

2) FINISH: N/A

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

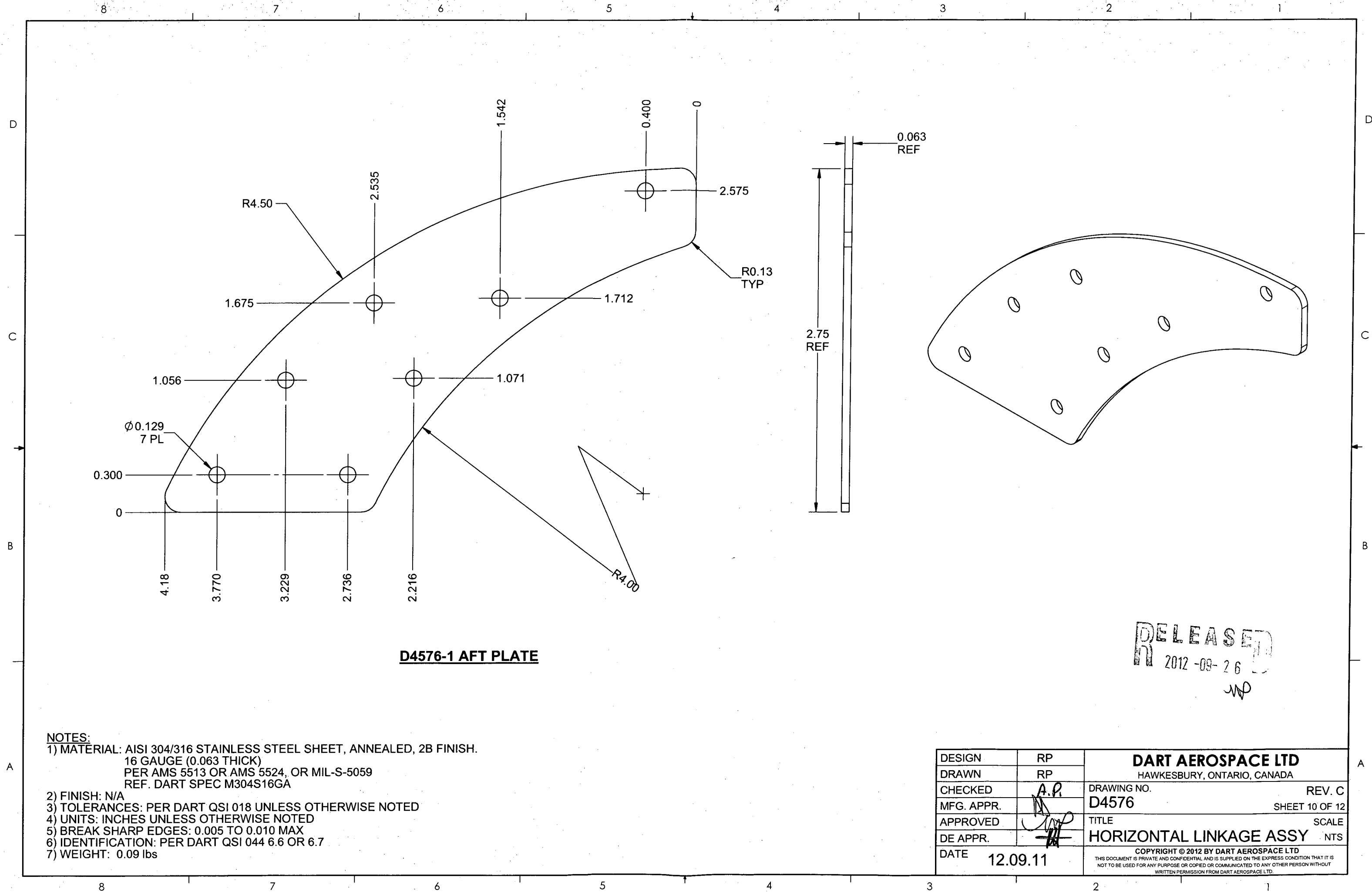
4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: PER DART QSI 044 6.6 OR 6.7

7) WEIGHT: <0.01 lbs

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	A.P.	DRAWING NO.	REV. C
MFG. APPR.		D4576	SHEET 9 OF 12
APPROVED		TITLE	SCALE
DE APPR.		HORIZONTAL LINKAGE ASSY	NTS
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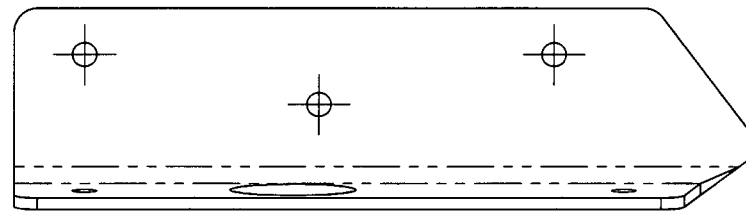
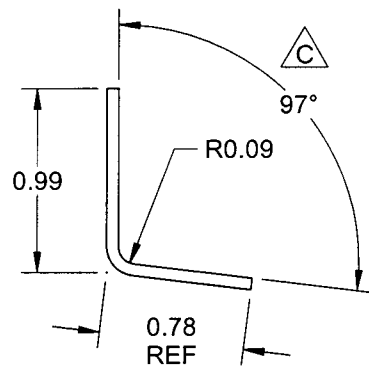
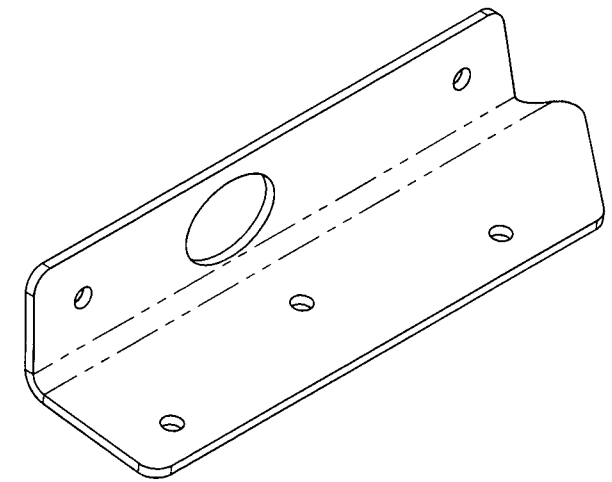
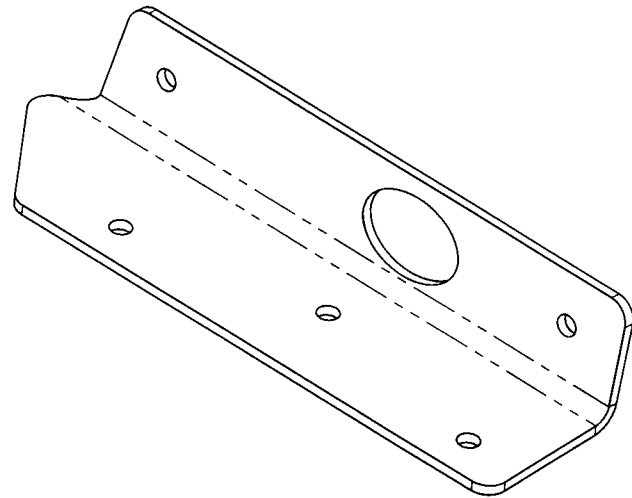


**D4576-1 AFT PLATE**

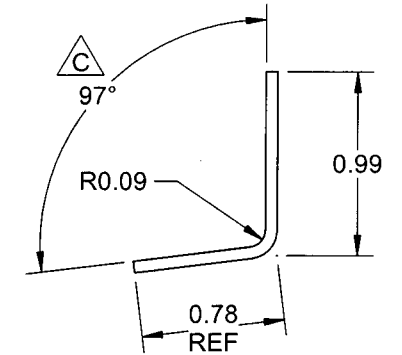
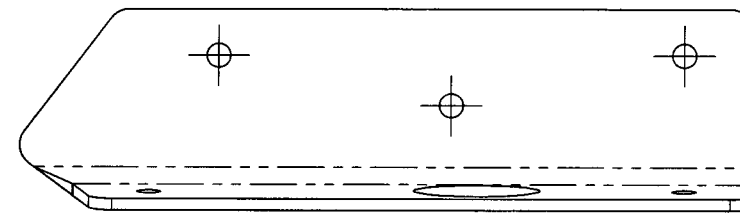
RELEASED  
2012-09-26  
WJ

- NOTES:**
- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, ANNEALED, 2B FINISH.  
16 GAUGE (0.063 THICK)  
PER AMS 5513 OR AMS 5524, OR MIL-S-5059  
REF. DART SPEC M304S16GA
  - 2) FINISH: N/A
  - 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
  - 4) UNITS: INCHES UNLESS OTHERWISE NOTED
  - 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
  - 6) IDENTIFICATION: PER DART QSI 044 6.6 OR 6.7
  - 7) WEIGHT: 0.09 lbs

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	A.P.	DRAWING NO.	REV. C
MFG. APPR.	[Signature]	D4576	SHEET 10 OF 12
APPROVED	[Signature]	TITLE	SCALE
DE APPR.	[Signature]	HORIZONTAL LINKAGE ASSY	NTS
DATE	12.09.11	COPYRIGHT © 2012 BY DART AEROSPACE LTD <small>THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.</small>	



**D4576-10 FORWARD PLATE (RH)**  
(MADE FROM D4576-9F)

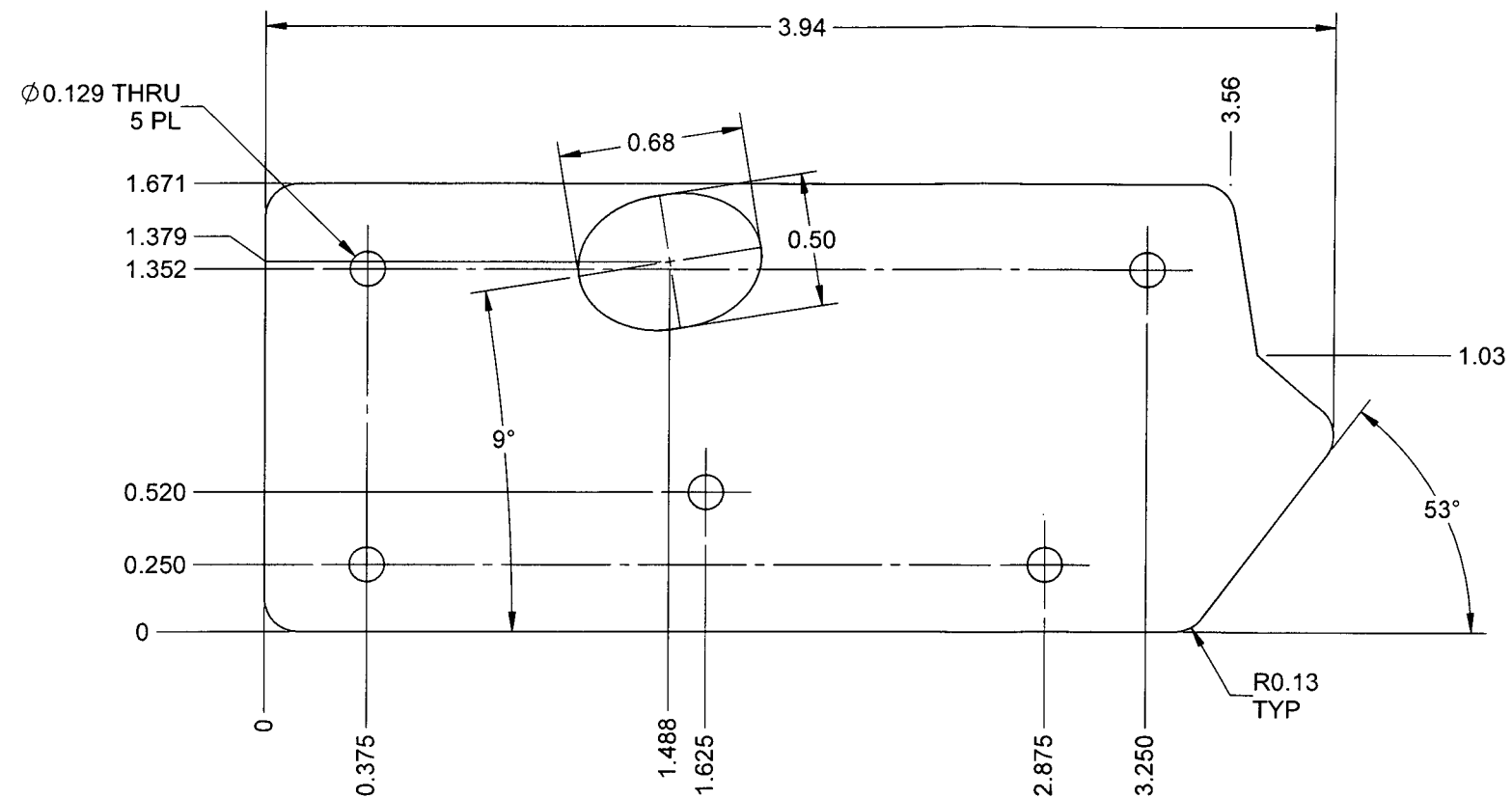


**D4576-9 FORWARD PLATE (LH)**  
(MADE FROM D4576-9F)

RELEASED  
2012-09-26  
WV

- NOTES:**  
 1) MATERIAL: N/A  
 2) FINISH: N/A  
 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED  
 4) UNITS: INCHES UNLESS OTHERWISE NOTED  
 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX  
 6) IDENTIFICATION: PER DART QSI 044 6.6 OR 6.7  
 7) WEIGHT: 0.11 lbs




DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.	<i>[Signature]</i>	<b>D4576</b>	SHEET 11 OF 12
APPROVED	<i>[Signature]</i>	TITLE	SCALE
DE APPR.	<i>[Signature]</i>	<b>HORIZONTAL LINKAGE ASSY</b>	NTS
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**D4576-9F FORWARD PLATE**   
(FLAT PATTERN)

**NOTES:**

- 1) MATERIAL: AISI 304/316 STAINLESS STEEL SHEET, ANNEALED, 2B FINISH.  
16 GAUGE (0.063 THICK)  
PER AMS 5513 OR AMS 5524, OR MIL-S-5059  
REF. DART SPEC M304S16GA
- 2) FINISH: N/A
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: PER DART QSI 044 6.6 OR 6.7
- 7) WEIGHT: 0.11 lbs

DESIGN	RP	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	RP		
CHECKED	AP	DRAWING NO.	REV. C
MFG. APPR.		<b>D4576</b>	SHEET 12 OF 12
APPROVED		TITLE	SCALE
DE APPR.		<b>HORIZONTAL LINKAGE ASSY</b>	NTS
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2012-09-26  
